

Patent Abstracts of Japan

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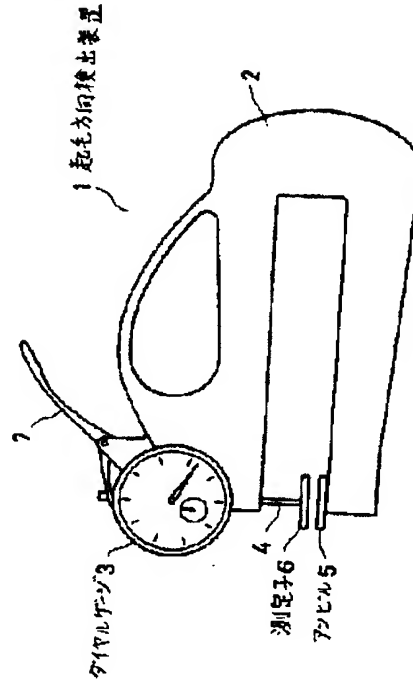
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TITLE : METHOD FOR DETECTING
FIBER-RAISING DIRECTION OF PILE
FABRIC



ABSTRACT : PURPOSE: To detect the fiber-raising direction of a pile yarn from the vertical displacement of a plate probe having a proper area by contacting the probe with the planted yarn face of a pile fabric under pressure and parallelly moving the probe relative to the fabric.

CONSTITUTION: An anvil 5 is made to contact with the base cloth side of a pile fabric and a plate probe 6 with the pile yarn side of the fabric. A spindle operation lever 7 is lowered and the reading of a dial gauge 3 is taken as the standard when the pressure of the probe 6 is balanced with the elastic repulsive force of the pile yarn. The device is moved in a definite direction at a constant speed while keeping the above state. When the moving direction coincides with the raised direction, the pile yarn is fallen with the probe 6 to decrease the thickness of the cloth and the reading of the dial gauge is deflected to minus side from the above standard. On the contrary, the pile yarn is raised when the moving direction is opposite to the raising direction and the cloth thickness is increased to deflect the dial to the plus side. The raising direction can accurately be detected by this process using a commercially available thickness gauge with slight modification.

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